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TP Modul 8

```
1. Implementasi Runtime Configuration
Bank_transfer_config.json
"lang": "id",
"transfer": {
"threshold": 25000000,
"low_fee": 6500,
"high_fee": 15000
"methods": ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],
"confirmation": {
"en": "yes",
"id": "ya"
}
Bank_transfer.js
const fs = require('fs');
class BankTransferConfig {
constructor() {
const defaultConfig = {
lang: "en",
transfer: {
threshold: 25000000,
low_fee: 6500,
high_fee: 15000
},
methods: ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],
confirmation: {
en: "yes",
id: "ya"
}
};try {
const data = fs.readFileSync('./bank_transfer_config.json', 'utf-8');
this.config = JSON.parse(data);
} catch (error) {
this.config = defaultConfig;
}
getConfig() {
return this.config;
}
module.exports = BankTransferConfig;
main.js
const readline = require('readline');
const BankTransferConfig = require('./bank_transfer');
const rl = readline.createInterface({
input: process.stdin,
output: process.stdout
const configLoader = new BankTransferConfig();
const config = configLoader.getConfig();
const lang = config.lang;
```

```
const threshold = config.transfer.threshold;
const lowFee = config.transfer.low_fee;
const highFee = config.transfer.high_fee;
const methods = config.methods;
const confirmation = config.confirmation;
const askAmount = lang === "en"
? "Please insert the amount of money to transfer: "
: "Masukkan jumlah uang yang akan di-transfer: ";
rl.guestion(askAmount, (amountInput) => {
const amount = parseInt(amountInput);
const fee = amount <= threshold ? lowFee : highFee;const total = amount + fee;
if (lang === "en") {
console.log(`Transfer fee = ${fee}`);
console.log(`Total amount = ${total}`);
console.log(`\nSelect transfer method:`);
} else {
console.log(`Biaya transfer = ${fee}`);
console.log(`Total biaya = ${total}`);
console.log(`\nPilih metode transfer:`);
methods.forEach((method, i) \Rightarrow {
console.log(`${i + 1}. ${method}`);
rl.question('\n>', () => {
const confirmPrompt = lang === "en"
? `Please type "${confirmation.en}" to confirm the transaction: `
: `Ketik "${confirmation.id}" untuk mengkonfirmasi transaksi: `;
rl.question(confirmPrompt, (confirmInput) => {
const validConfirm = lang === "en" ? confirmation.en : confirmation.id;
if (confirmInput.trim().toLowerCase() === validConfirm.toLowerCase()) {
console.log(lang === "en" ? "The transfer is completed" : "Proses transfer
berhasil");
} else {
console.log(lang === "en" ? "Transfer is cancelled" : "Transfer dibatalkan");
});
});
});
rl.close();Output:
Penjelasan:
Kode diatas mengimplementasi runtime configuration menggunakan file
bank_transfer_config.json untuk mengatur bahasa, batas biaya transfer, metode
transfer, dan konfirmasi transaksi. File tersebut diproses melalui class
BankTransferConfig, yang membaca konfigurasi atau menggunakan nilai default jika
file tidak ditemukan. Program utama akan meminta input jumlah uang yang akan
ditransfer, menghitung biaya berdasarkan ambang batas (threshold), lalu
menampilkan total biaya serta daftar metode transfer. Setelah pengguna memilih
metode, program meminta konfirmasi dalam bahasa yang sesuai (id atau en) sebelum
menyelesaikan atau membatalkan transaksi.
```